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Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extension.

T. Todd Pichini

Acting Commissioner of Patents and Trademarks

Pandra Morton

Attest



US005902965A

United States Patent [19]

Oldendorf et al.

[11] Patent Number: 5,902,965
[45] Date of Patent: May 11, 1999

[54] **ELECTRIC BALANCE FOR CORRECTING MISLOADING THEREOF**

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[73] Assignee: **Sartorius AG**, Göttingen, Germany

[21] Appl. No.: 09/019,712

[22] Filed: Feb. 6, 1998

Related U.S. Application Data

[63] Continuation of application No. 08/397,958, Mar. 3, 1995, Pat. No. 5,847,328.

[30] Foreign Application Priority Data

Mar. 5, 1994 [DE] Germany 44 07 433

[51] Int. Cl.⁶ G01G 23/14; G01G 23/26

[52] U.S. Cl. 177/25.11; 177/25.16;
177/25.19; 141/83

[58] Field of Search 177/25.11, 25.12,
177/25.13, 25.14, 25.15, 25.16, 25.17, 25.19;
141/83

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U.S. PATENT DOCUMENTS

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Primary Examiner—Randy W. Gibson
Attorney, Agent, or Firm—Eric P. Schellin

[57] ABSTRACT

In an electronic balance for loading having a balance scale (3) weighing system, display (19), control keyboard (21 to 26) and a digital processing electronic circuitry in which circuitry at least one memory is present for the weighed value shown in the display (19). A first additional key (25) is present in the control keyboard (21 to 26) upon the actuation of the key the weighed value shown in the display (19) and stored in the digital signal processing electronics is decreased and upon the first actuation of the key the weighed value displayed immediately previously is taken in addition into a first additional memory. Furthermore, a second additional key (24) is present in the control keyboard (21 to 26) upon whose actuation the weighed value displayed in the display (19) is taken into a second additional memory. By means of the decreasing key the balance operator can decreased the display from the too large actual value step-by-step to the correct theoretical value. Since the overload is generally only a few numerical steps of the balance display, this is achieved with a few steps. The balance can calculate the percentage overload by storing the balance display prior to the decreasing and during the conclusion of the decreasing and subsequently bring about the same overloading in the known manner for each of the remaining components. This creates the possibility even for simple loading balances without an electronic recipe memory of compensating an inadvertent overloading of a component by means of a overloading of the other components in equal percentage.

1 Claim, 4 Drawing Sheets

